

531324
Rec'd PCT/PTO 14 APR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041167 A2

(51) International Patent Classification:

A61K

(21) International Application Number:

PCT/US2003/034225

(22) International Filing Date: 29 October 2003 (29.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/422,383

30 October 2002 (30.10.2002) US

(71) Applicants and

(72) Inventors: CALOGEROPOULOU, Theodora
[GR/GR]; 32 Proteos St., GR-145 64 Kifissia (GR).
KOUFAKI, Maria [GR/GR]; 19 Mardouheou Frizi
St., GR-11524 Athens (GR). AVLONITIS, Nikolaos
[GR/GR]; Kessnas 21, Koridallou, GR-18120 (GR).
MAKRIYANNIS, Alexandros [US/US]; 3 Thomas
Street, Mystic, CT 06355 (US).

(74) Agents: PIOTROWSKI, James, E. et al.; Alix, Yale &
Ristas, LLP, 750 Main Street - Suite 1400, Hartford, CT
06103-2721 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

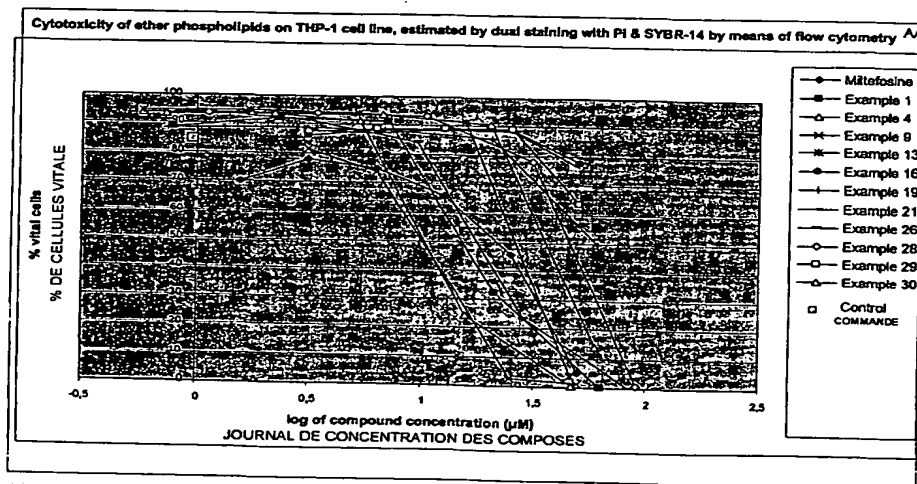
— without international search report and to be republished
upon receipt of that report

[Continued on next page]

(54) Title: ANTIPROTOZOAL RING-SUBSTITUTED PHOSPHOLIPIDS

Cytotoxicity of ether phospholipids on THP-1 cell line

CYTOTOXICITE D'ETHER-PHOSPHOLIPIDES SUR UNE LIGNEE CELLULAIRE THP-1



AA... CYTOTOXICITE D'ETHER-PHOSPHOLIPIDES SUR UNE LIGNEE CELLULAIRE
THP-1, ESTIMEE PAR COLORATION DUALE AVEC PI ET SYBR-14 A L'AIDE D'UNE
CYTOMETRIE DE FLUX

(57) Abstract: Disclosed are novel ring containing phospholipids represented by the structural formula A-X-PO₃-W and physiologically acceptable salts thereof and a process for the preparation of these compounds. The compounds can be used for the treatment of protozoal diseases and especially leishmaniasis.

BEST AVAILABLE COPY

WO 2004/041167 A2